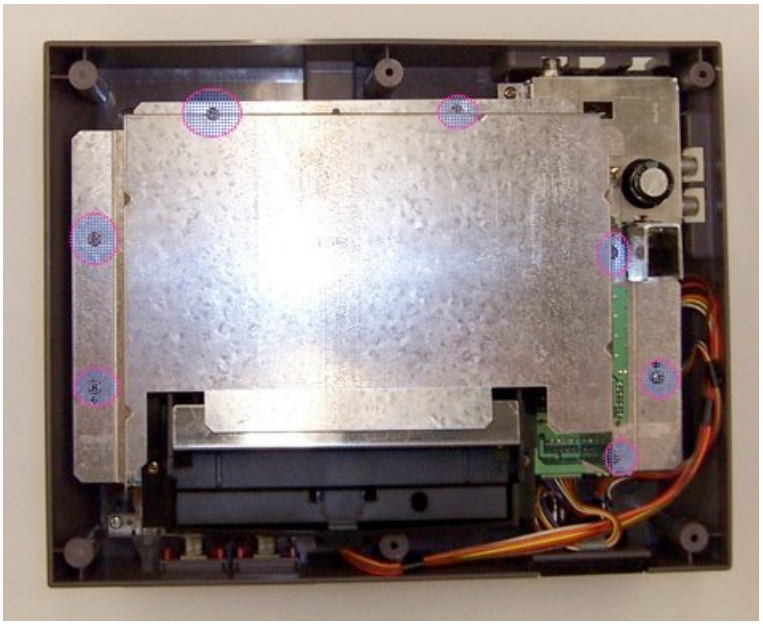
Step 1 - Open the NES

Remove all 6 screws from the bottom

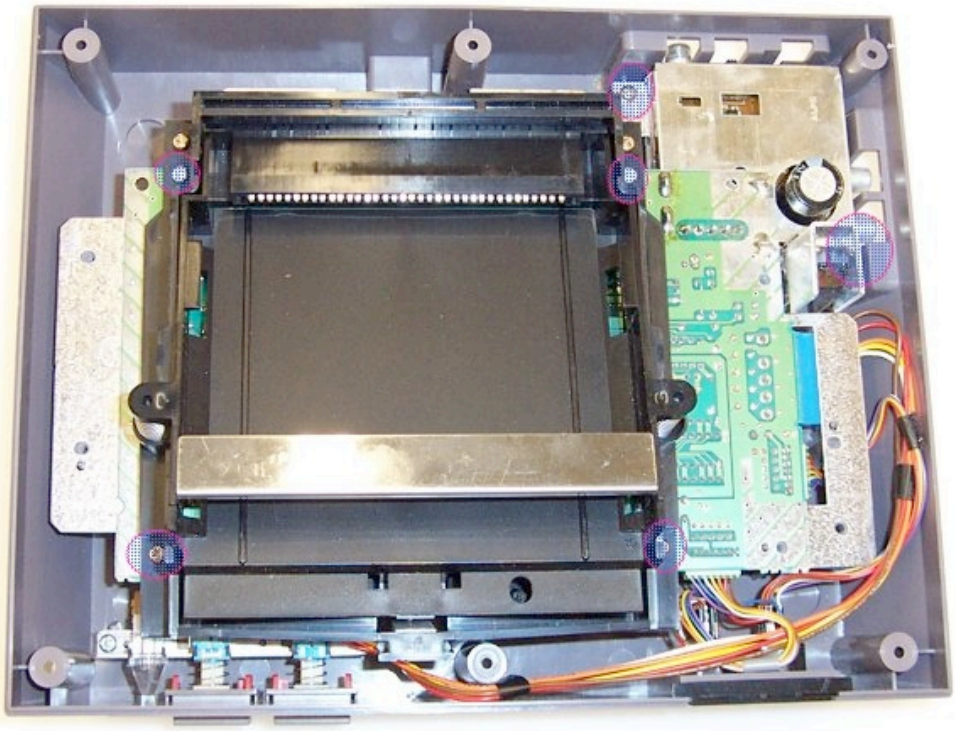
Step 2 - Remove shielding

Remove all 7 screws, then pull the metal shielding off and throw it away.



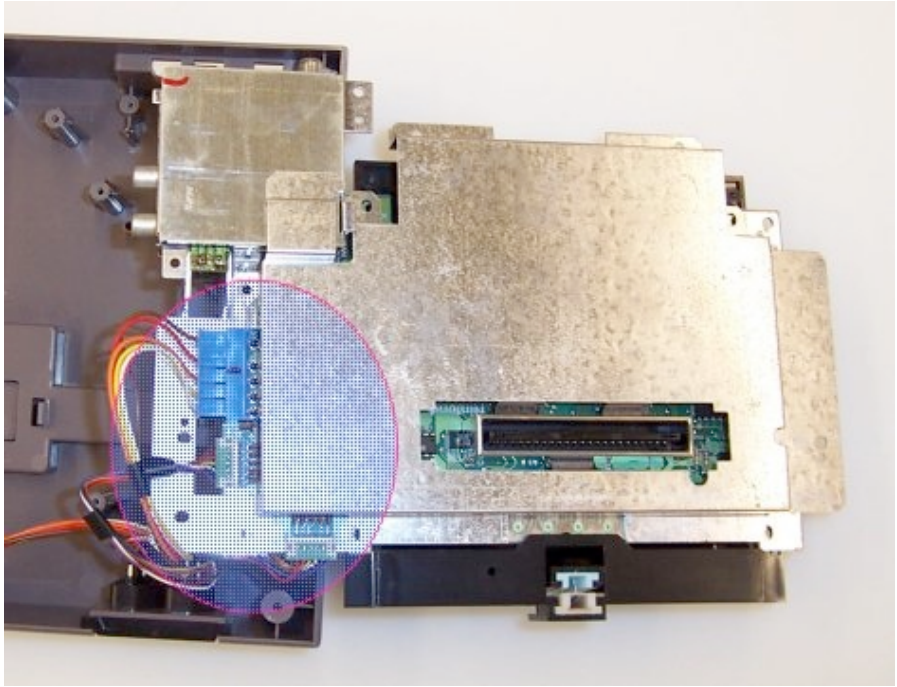
Step 3 - Remove PCB

Remove the 6 circled screws. The 2 silver screws are longer, remember where these go.



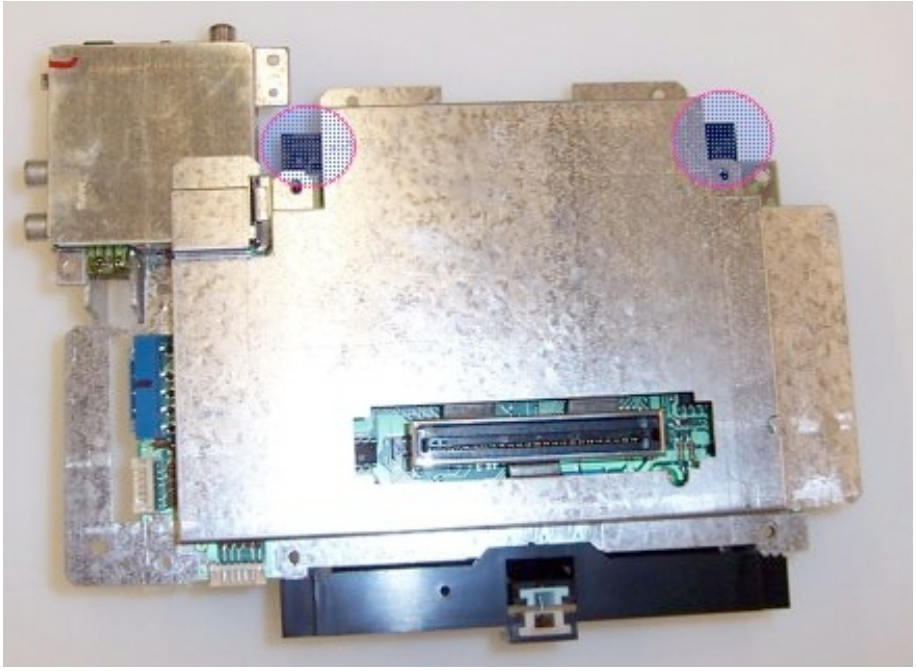
Step 4 - Unplug cables

Unplug the big blue plug and the 2 smaller controller plugs.



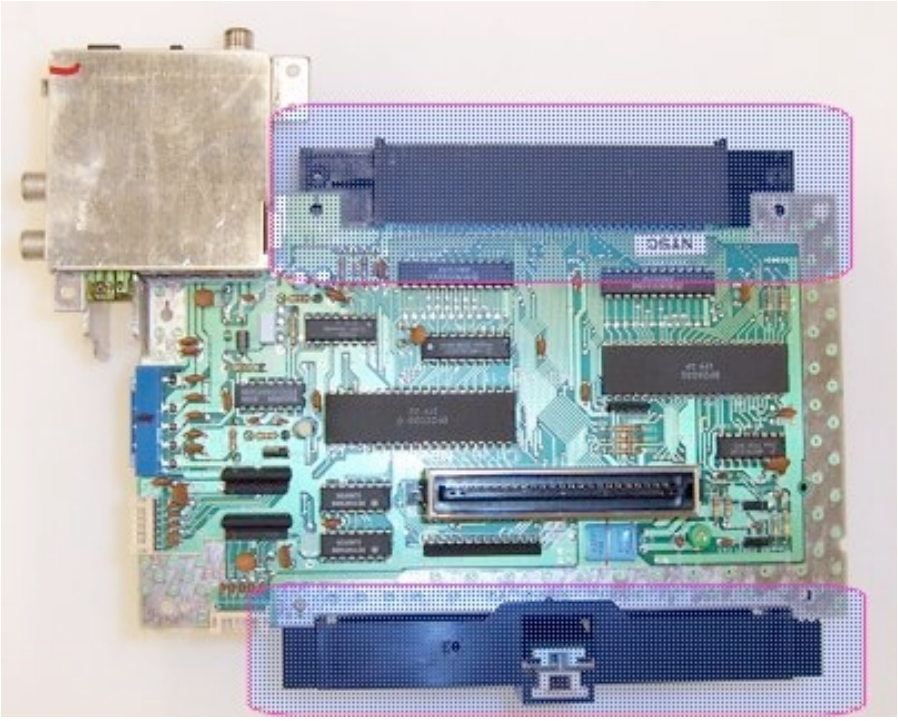
Step 5 - Remove bottom shielding

Remove 2 circled screws holding down the cart loader. Remove the bottom metal shielding and throw it away.



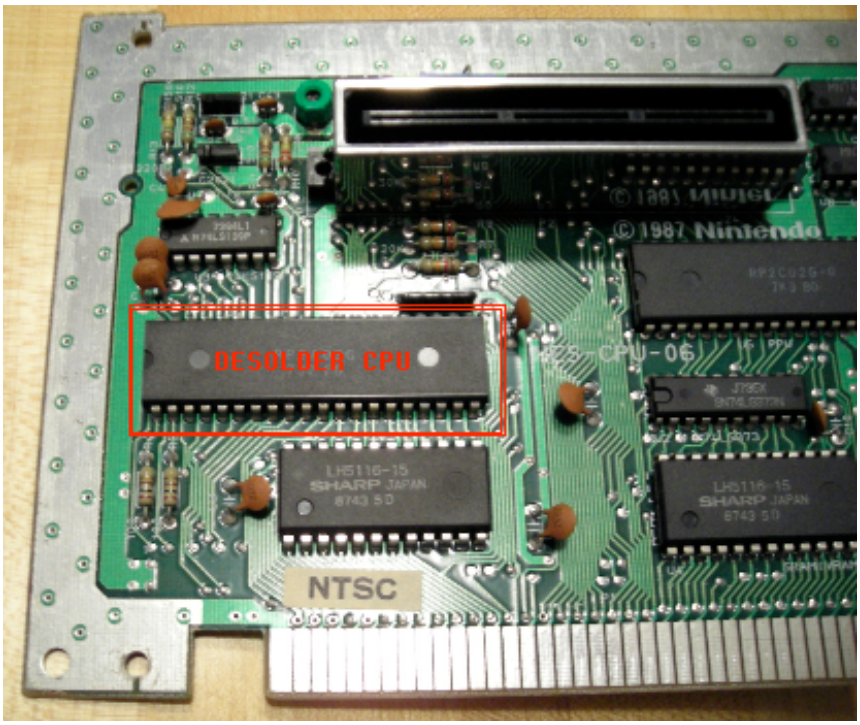
Step 6 - Remove cart loader

Move the cart loader forward to release it from the board.



Step 7 - Remove the CPU

This is the hardest step and must be done very carefully. Desolder the CPU (RP2A03) from the PCB, keeping all the pins intact. The chip must plug back into the USB CopyNES board.

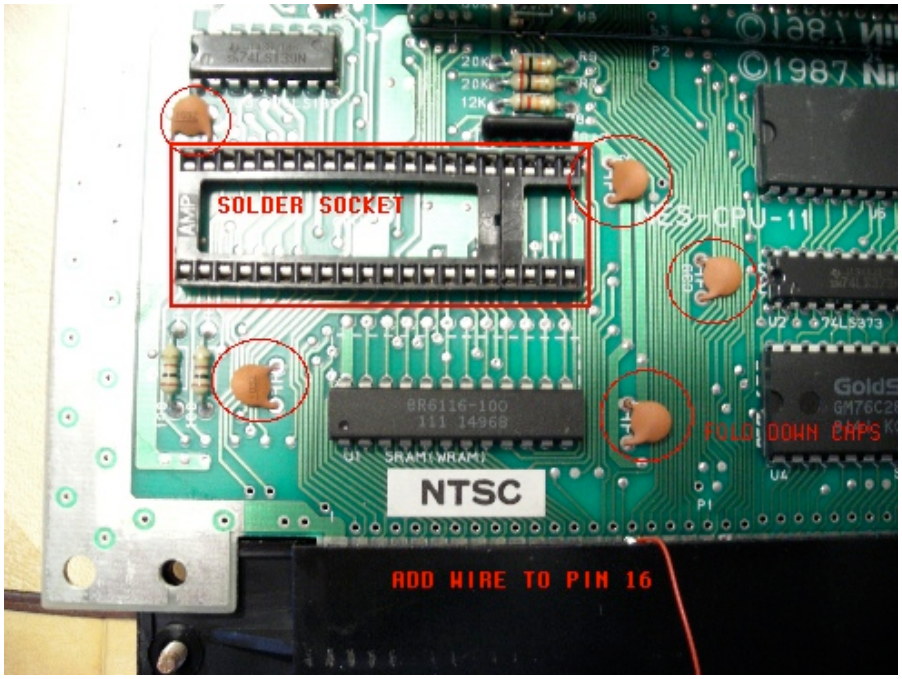


Step 8 - CPU Socket

Solder the included socket into the open CPU spot.

Fold the disc caps down so they are flat on the PCB.

For flash programming, add a 3"+ wire soldered to pin 16 on the cart connector.



Step 9 - Lockout

Disable the lockout chip by cutting pin 4.

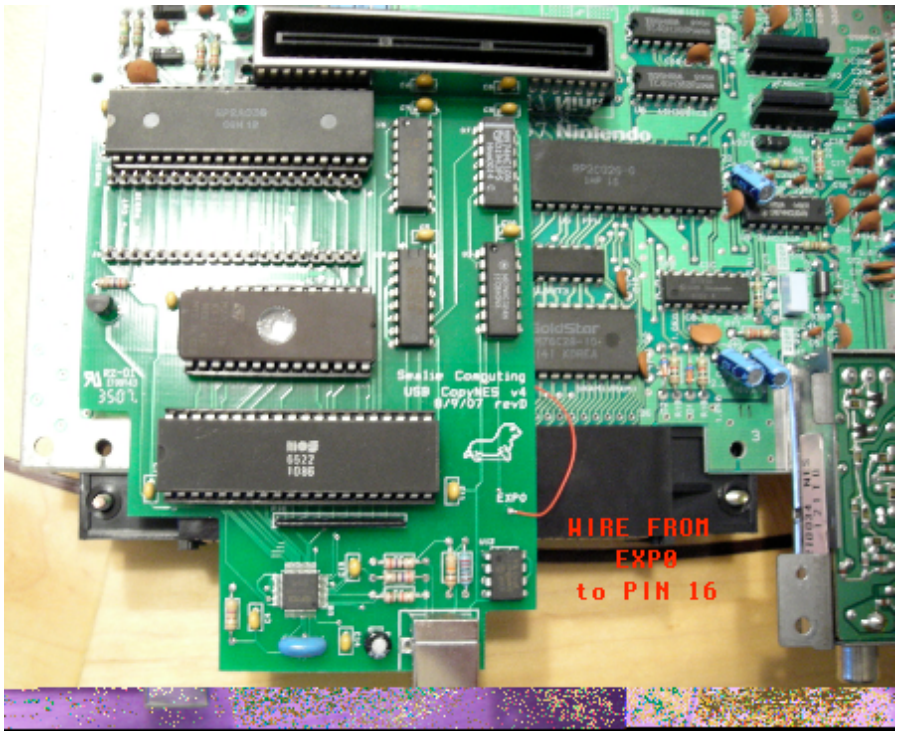
Remove cap C8 and replace with the included capacitor.

Step 10 - Plug in the board

Plug the CPU back into the USB CopyNES. The notch goes on the left side as marked on the board.

Plug the USB CopyNES board into the CPU socket. The board needs to be pushed down as far down as it will go.

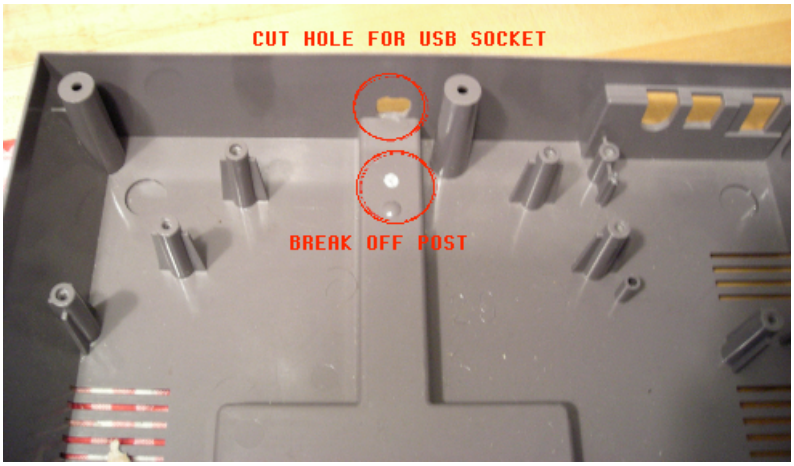
Solder the other end of the flash wire to the EXP0 hole on the USB CopyNES board.



Step 11 - Modify case

Snap off the circled plastic post at the bottom. Pushing it with your fingers should do this.

Cut a hole for the USB socket right above the rib on the back side.



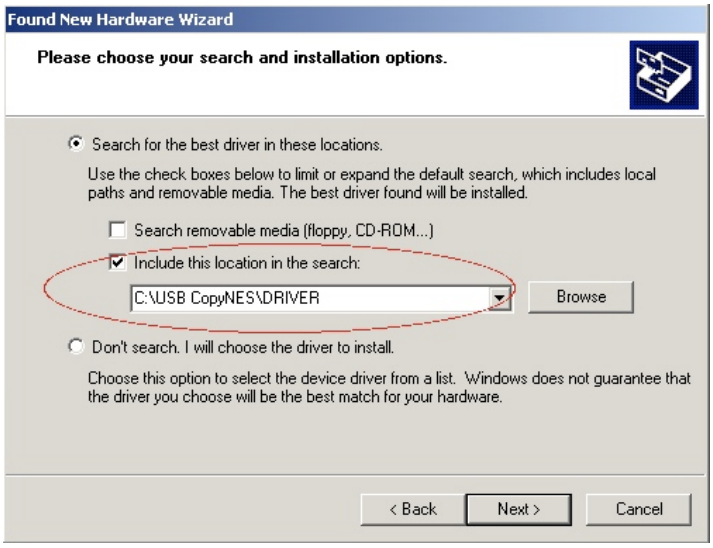
Step 12 - Reassembly

Place the PCB back into the case to make sure the USB socket lines up with the hole you cut.

Plug the power and controller cables back into the NES board. Hook the cart loader back into the 72 pin connector and load up a game. With the USB cable not plugged in, the game should play normally. If it doesn't, recheck that the board is fully plugged in and the CPU is installed in the right direction. If the game plays, screw down the board and close the case.

Step 13 - Software Installation

Download the latest versions of the USB CopyNES host app and install it on your computer. Then plug the USB cable into your USB CopyNES and your computer. When the Found New Hardware Wizard comes up, choose "Install from a list ...". On the next window choose the "Include" checkbox only and browse to the DRIVER folder where you installed the USB CopyNES host app. When the installation is complete start up the USB CopyNES.exe app. It will connect to the system and get a version number. If it times out, try hitting the reset button on the console and selecting the Reconnect USB option.



These instructions are for WinXP and may be different for Win98 and Vista. It should be compatible but is untested and no support is available for those operating systems. You may need to find different drivers for your system at www.ftdichip.com